



Piston Accumulators with crimped end cap design

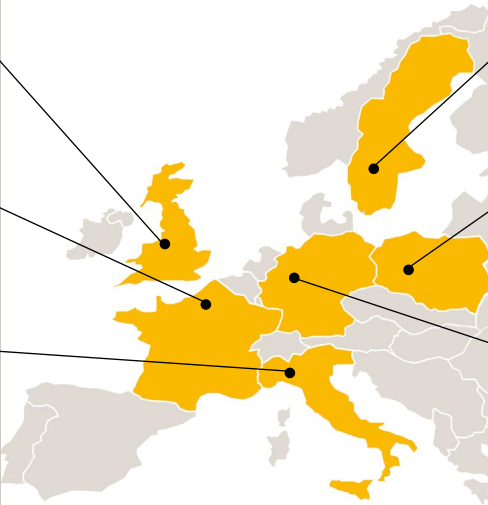
275 bar & 350 bar



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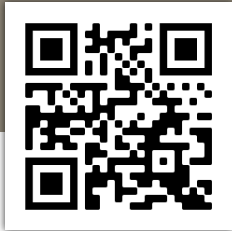
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Parker – committed to your success

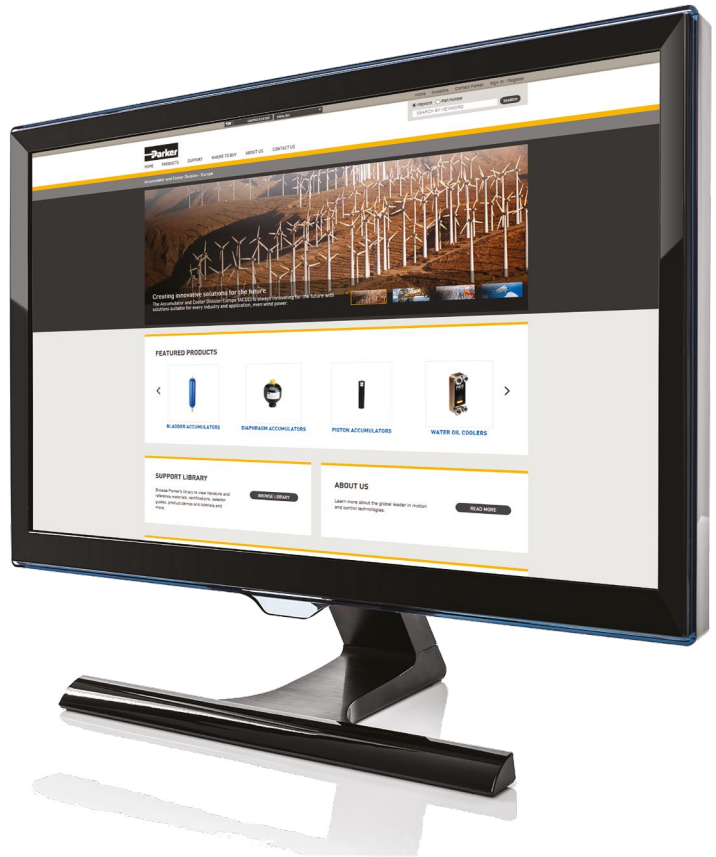
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Introduction: Crimped Piston Accumulators

Parker's piston accumulators with crimped end cap design offer pressure rating up to 350 bar. They offer a robust solution without the risk of sudden failure, and provide several other benefits as well.

Parker's crimped piston accumulators are an ideal replacement for applications where membrane (also known as diaphragm) accumulators are utilized. **They offer a robust solution without the risk of sudden failure.** One piston accumulator can deliver the same performance as five or more membrane accumulators. Reducing the number of required accumulators from five or more to just one piston accumulator will reduce components such as hoses and connectors and will:

- *Safe operating*
- *Reduce potential leak points*
- *Generate additional space*
- *Minimise installation time*
- *Reduce maintenance*

Target Markets

Mobile: Construction - Materials Handling - Mining - Agriculture

Industrial: Presses - Injection Moulding - Lifting Equipment - Renewable, Wind Power





Features/Benefits

- The ACP and HCP piston accumulators are manufactured according to EU Pressure Equipment Directive 2014/68/EU (UK CA certification in progress).
- The high-strength crimped construction provides long, reliable service life and its small piston seal area minimizes gas permeability. The piston design also prevents sudden accumulator failure.
- The piston accumulators are available in a wide range of lengths and bore sizes and allow installation to be adapted to available space. Custom sizes are available for unique applications. Rechargeable versions come with gas valve and 'tamperproof' versions are supplied valveless.
- A wide range of SAE, BSPP and M (metric) oil port types and sizes are available.
- The lightweight piston design allows fast response to reduce shock in rapid cycling applications.
- Parker's piston accumulators are compatible with a wide variety of fluids. Standard accumulators (with nitrile seals) may be used with petroleum-based industrial oils or water-based flame resistant fluids. Optional seals compatible with most industrial fluids are available with temperature ranges from -40°C to 150°C.
- High burst test safety factor.

Our Technology

- High compression ratio 10:1
- Low gas loss
10 x < than membrane accumulators
- No sudden failure
- Sturdy design
- High flow rate– more than 3100 l/min*
- Highly dynamic -
smooth running & self-lubricating
- Dampens pulsation and pressure surges
- Customised volume capacity
- Space saving
- Cost saving
- Flexible mounting (horizontal or vertical)
- longevity
- Proven across a wide range of applications

Your Value

- Higher working-pressure ratings:
up to 350 bar - meet more applications with fewer sizes needed.
- Use of standard components promotes faster delivery of proven designs and lower product cost.
- Piston design prevents sudden accumulator failure and is customized to fit the application.
- Five bore sizes available for more capacity and price options.
- Patented crimped end cap connections provide superior fatigue life compared with welded designs.
- “Schrader” style gas valve (code A) fits existing charging equipment
- Multiple hydraulic port sizes accommodate a wider range of fittings and mounting options.
- Multi approvals available (see table p. 10)



SAFE

- High compression ratio 10:1 · Low gas loss: 10x < than membrane accumulator
- No sudden failure · Sturdy design



EFFICIENT

- High flow rate - more than 3100l/min*
- Highly dynamic: smooth running & self-lubricating
- Dampens pulsation and pressure surges



FLEXIBLE

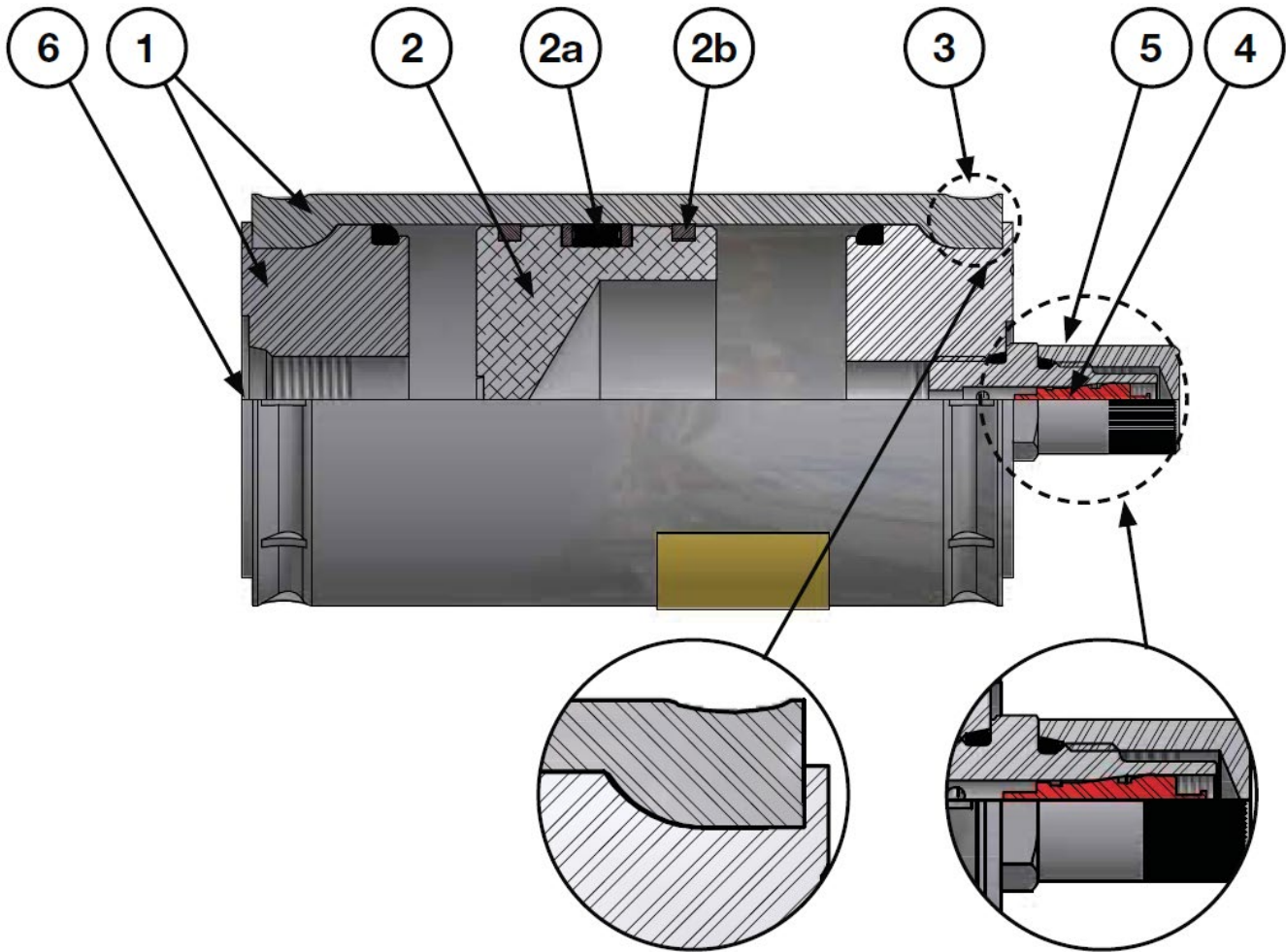
- Customised volume capacity · Space saving · Cost saving
- Flexible mounting option: horizontal or vertical



RELIABLE

- Longevity · Proven across a wide range of applications

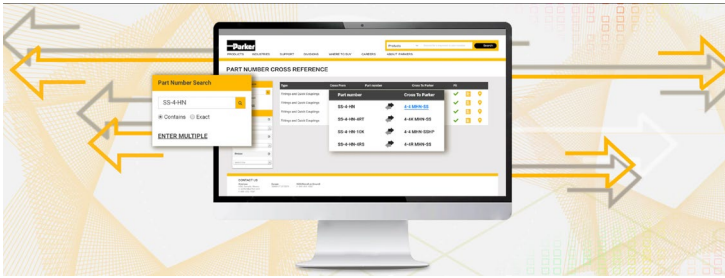
* Note: Based on 3 m/sec (120 in/sec) maximum piston speed.



- 1 High-strength, compact steel shell and cap material.** Steel shell allows heat to dissipate effectively and is micro-finished for extended seal life.
- 2 Lightweight piston design** allows for fast response to reduce system shock in rapid cycling applications.
- 2a Piston seal's unique, five-bladed V-O-ring** with back-up washers eliminates seal roll-over and ensures total separation of fluid and gas (40 mm size incorporates a T-seal with energized PTFE piston ring).
- 2b PTFE glide rings** eliminate metal-to-metal contact between tube and piston, reducing wear and extending service life.
- 3 Patented crimped design** provides high-strength coupling of caps to steel tube plus superior fatigue life versus welded type connections.
- 4 "Schrader" style gas valve** (code A) is standard on all ACP / HCP accumulators for easy precharging. (Pre-charged accumulators are available featuring specially designed threaded plug and no gas valve option.)
- 5 Gas valve cap** protects valve and serves as secondary seal. Knurled cap design allows easy installation without tools.
- 6 Port types** are available in a wide range of sizes in both SAE, BSPP and M (metric) styles.

Parker Cross-Reference Tool

With the help of this search and exchange tool it is to replace the existing diaphragm accumulator with the appropriate piston accumulator. The website contains data from both Parker membrane accumulators as well as competitor part numbers.



All Benefits at a Glance!

See our dedicated website for the key facts of Parker's crimped piston accumulators. The short animated clips perfectly illustrate the products' advantages compared to regular membrane accumulators.



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crimped piston accumulators, 275 & 350 bar

Parker's crimped piston accumulators offer pressure rating up to 350 bar. They are also the best in class in terms of weight per liter. Parker's crimped piston accumulators are ideal for use in industrial or mobile applications. They are the strongest and most reliable accumulators in the market. Their outstanding efficiency and robustness makes them suitable for all sorts of applications, from renewable energy to all types of mobile machinery.

CRIMPED PISTON ACCUMULATORS ARE:

- * SAFE** high compression ratio: 10 to 1
low gas loss: 10x < than membrane accumulators
no sudden failure
sturdy design
- * EFFICIENT** high flow rate: up to 4200 l/min
highly dynamic: smooth running & self lubricating
dampens pulsation and pressure surges
- * FLEXIBLE** customisable volume capacity
space saving
cost saving
horizontal or vertical mounting unaffected
- * RELIABLE** longevity
proven across a wide range of applications

PRODUCT RANGE:

High performance steel and aluminium piston

Bore size: 40, 50, 80, 100, 150 mm

Volume: 0.02 - 20 L

Parker Patent: crimped design (no fatigue)
more than 2 Mio load changes

Service: Delta P 200 bar

Sealing Systems: NBR, HNBR, Viton (FKM), X-TREM Seal System

Certification: Approval CE/PED, UKCA

Temperature: -40°C to +150°C

Learn more about Parker's crimped piston accumulator range online:

VIEW CATALOGUE

VIEW WEBSITE

CADE Cylinder and Accumulator Division Europe
 Delmenhorster Str. 10 | D-50735 Köln [contact us](#)

<https://discover.parker.com/crimpedpistonaccumulators>



Lightweight Piston

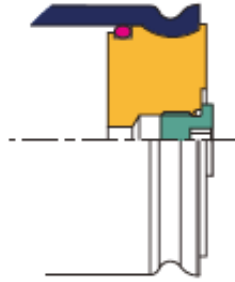
The ACP and HCP Series feature a dished, lightweight aluminium piston deep-walled for stability in the bore.

- High efficiency - fast response times
- Reduced system shock in rapid cycling applications
- Extra gas capacity

Rugged Construction

ACP and HCP Series accumulators feature high strength, compact, steel shell and caps, permanently joined and sealed by a revolutionary crimping process.

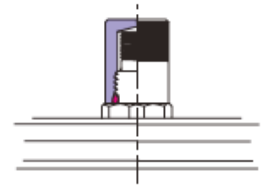
- Effective heat dissipation prevents fluid and seal degradation
- Superior fatigue life
- Micro-finished for extended seal life



Protective Steel Gas Cap

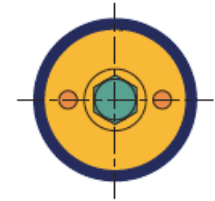
Models fitted with a gas valve are supplied with a protective steel cap. Tamperproof versions are fitted with a threaded plug which provides progressive release of pre-charge pressure prior to safe disposal.

- Steel cap reduces the risk of damage from external impact
- Security - cap provides a secondary seal



Spanner Holes

To permit easy installation on hydraulic manifolds, or in areas where mounting space is restricted, spanner holes are provided on all models (except bore 150 mm).



Effective, Durable Sealing

50mm bore models feature Parker's unique, patented five bladed V-O-ring piston seal. The 40mm model combines an elastomeric seal with a low friction PTFE piston ring. All models employ PTFE bearing rings

to eliminate metal-to-metal contact between the tube and piston.

- Dependable, full pressure storage of hydraulic energy
- Effective separation of fluid and gas for long service intervals
- Reduced wear for extended service life
- Safe in operation - cannot suffer catastrophic failure

External Coating

- Standard Primar Black Paint according RAL 9005

Cleanliness & Flushing

- Maximum ISO Code Cleanliness Acceptable
- ISO 4406 18/16/13
- Customised flushing is available upon request

Approvals

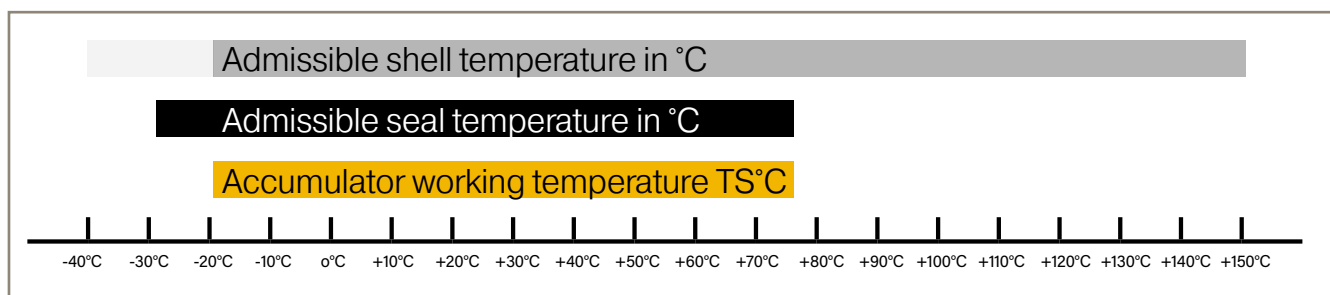
| Pressure Equipment Directive | Pressure Vessel Design Approval | ACP | HCP |
|------------------------------|---------------------------------|----------------|-----|
| PED / CE | Europe / EMEA | ✓ | ✓ |
| CRN | Canada | ✓* | ✓* |
| UK / CA | UK | as of Jan 2023 | |
| AS1210 | Australia | ACP15 | x |

* approval for British Columbia, Quebec, Saskatchewan

Seals, Fluids and Temperature Ranges*

| Code | ACP and HCP Seals | Min Temp | Max Temp | Fluid Classification | Fluid Type | Maximum Piston Velocity (m/s) |
|----------|---|----------|----------|---|-----------------------------|-------------------------------|
| K | NBR (Nitrile) | -29°C | 74°C | HFB - HFC, Hydraulic oils conforming to DIN51542-2/-3 | Water Glycols, Mineral Oils | 3 m/s |
| H | HNBR (Hydrogenated Nitrile) | -32°C | 150°C | HFB - HFC, Hydraulic oils conforming to DIN51542-2/-3 | Water Glycols, Mineral Oils | 3 m/s |
| Q | LT-NBR (Low Temperature Nitrile) | -45°C | 93°C | Hydraulic oils conforming to DIN51542-2/-3 | Mineral Oils | 3 m/s |
| X | Low Friction T Seal Consult Parker CADE | -43°C | 121°C | Hydraulic oils conforming to DIN51542-2/-3 | Mineral Oils | 3 m/s |

* Working conditions of accumulators are a mix of seals and metal parts working conditions. Standard metal parts working conditions are -20°C / +150°C, optional are -40°C / +150°C.



Actual Bore Sizes and Maximum Flow Rates

| Bore Size | Actual Bore Size | | Maximum Recommended Flow Rate* |
|-----------|------------------|--------|--------------------------------|
| | mm | in | l/min |
| 40 | 1.50 | 38.20 | 209 |
| 50 | 2.02 | 51.44 | 380 |
| 80 | 3.00 | 76.20 | 834 |
| 100 | 4.03 | 102.4 | 1504 |
| 150 | 5.80 | 146.86 | 3100 |

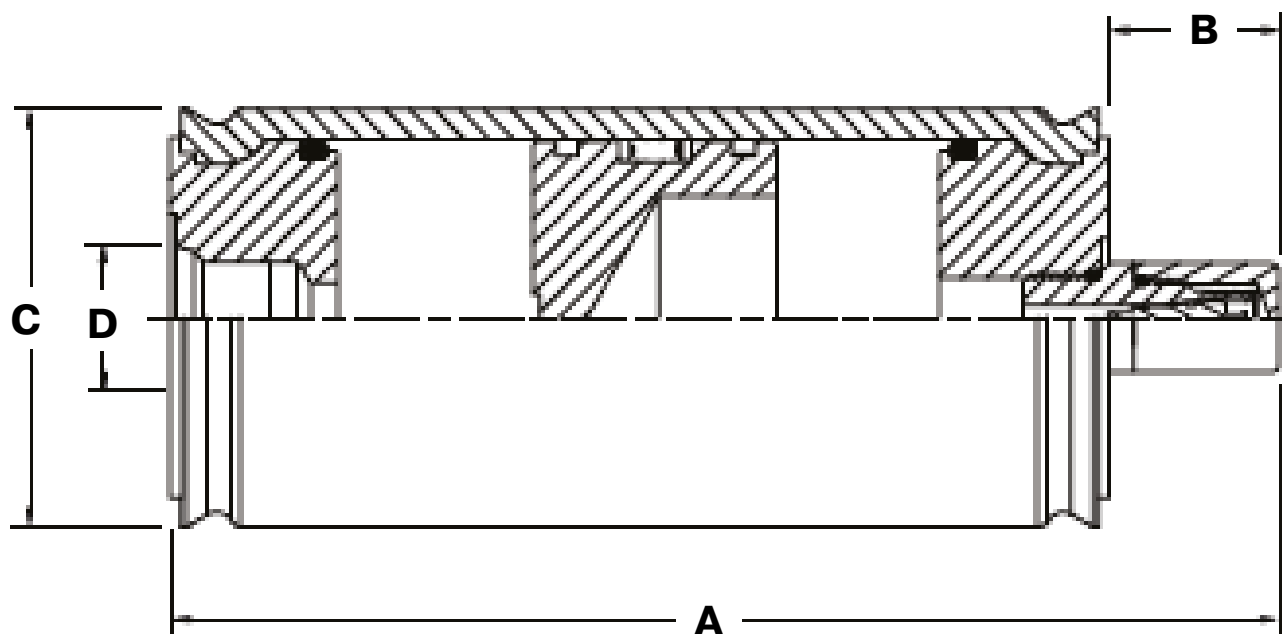
* Note: Based on 3 m/sec (120 in/sec) maximum piston speed. Port & fitting size will become limiting factors for flow rate in most applications.

Crimped Piston Accumulators up to 275 bar, Ø 40 - 150 mm

ACP - Crimped Piston Accumulators 260 bar - 275 bar with Schrader style gas valve (code A).
Standard version (carbon steel shell / seal NBR) compatible with mineral oils.

| Part number | Ø Bore | Effective Gas Volume (L) max. | Max. Working Pressure (bar) | Weight (Kg) | A | B | Ø C | Ø D (BSPP) Female |
|-----------------|--------|-------------------------------|-----------------------------|-------------|--------|------|-------|-------------------|
| ACP04EA002R2KRA | 40 | 0.02 | 260 | 0.50 | 101.6 | 25.3 | 44.10 | G3/8 |
| ACP04EA008R2KRA | 40 | 0.08 | 260 | 0.70 | 153.9 | 25.3 | 44.10 | G3/8 |
| ACP04EA016R2KRA | 40 | 0.16 | 260 | 0.90 | 224.2 | 25.3 | 44.10 | G3/8 |
| ACP04EA032R2KRA | 40 | 0.32 | 260 | 1.30 | 364.3 | 25.3 | 44.10 | G3/8 |
| ACP05EA008E2KRB | 50 | 0.08 | 275 | 1.50 | 138.7 | 25.3 | 60.33 | G1/2 |
| ACP05EA016E2KRB | 50 | 0.16 | 275 | 1.80 | 177.2 | 25.3 | 60.33 | G1/2 |
| ACP05EA032E2KRC | 50 | 0.32 | 275 | 2.20 | 254.2 | 25.3 | 60.33 | G3/4 |
| ACP05EA032E2KRB | 50 | 0.32 | 275 | 2.20 | 254.2 | 25.3 | 60.33 | G1/2 |
| ACP05EA050E2KRB | 50 | 0.50 | 275 | 2.80 | 340.8 | 25.3 | 60.33 | G1/2 |
| ACP05EA050E2KRC | 50 | 0.50 | 275 | 2.80 | 340.8 | 25.3 | 60.33 | G3/4 |
| ACP05EA075E2KRB | 50 | 0.75 | 275 | 3.50 | 461.2 | 25.3 | 60.33 | G1/2 |
| ACP05EA075E2KRC | 50 | 0.75 | 275 | 3.50 | 461.2 | 25.3 | 60.33 | G3/4 |
| ACP05EA100E2KRB | 50 | 0.95 | 275 | 4.10 | 557.7 | 25.3 | 60.33 | G1/2 |
| ACP05EA100E2KRC | 50 | 0.95 | 275 | 4.10 | 557.7 | 25.3 | 60.33 | G3/4 |
| ACP05EA150E2KRB | 50 | 1.50 | 275 | 5.70 | 822.1 | 25.3 | 60.33 | G1/2 |
| ACP05EA150E2KRC | 50 | 1.50 | 275 | 5.70 | 822.1 | 25.3 | 60.33 | G3/4 |
| ACP05EA200E2KRB | 50 | 2.00 | 275 | 7.20 | 1062.5 | 25.3 | 60.33 | G1/2 |
| ACP05EA200E2KRC | 50 | 2.00 | 275 | 7.20 | 1062.5 | 25.3 | 60.33 | G3/4 |
| ACP08EA032E2KRB | 80 | 0.32 | 275 | 4.88 | 195.9 | 25.3 | 90.40 | G1/2 |
| ACP08EA032E2KRC | 80 | 0.32 | 275 | 4.88 | 195.9 | 25.3 | 90.40 | G3/4 |
| ACP08EA050E2KRB | 80 | 0.50 | 275 | 5.46 | 235.4 | 25.3 | 90.40 | G1/2 |
| ACP08EA050E2KRC | 80 | 0.50 | 275 | 5.46 | 235.4 | 25.3 | 90.40 | G3/4 |
| ACP08EA075E2KRB | 80 | 0.75 | 275 | 6.26 | 290.3 | 25.3 | 90.40 | G1/2 |
| ACP08EA075E2KRC | 80 | 0.75 | 275 | 6.26 | 290.3 | 25.3 | 90.40 | G3/4 |
| ACP08EA100E2KRB | 80 | 0.95 | 275 | 6.90 | 334.0 | 25.3 | 90.40 | G1/2 |
| ACP08EA100E2KRC | 80 | 0.95 | 275 | 6.90 | 334.0 | 25.3 | 90.40 | G3/4 |
| ACP08EA150E2KRB | 80 | 1.50 | 275 | 8.65 | 454.7 | 25.3 | 90.40 | G1/2 |
| ACP08EA150E2KRC | 80 | 1.50 | 275 | 8.65 | 454.7 | 25.3 | 90.40 | G3/4 |
| ACP08EA200E2KRB | 80 | 2.00 | 275 | 10.25 | 564.5 | 25.3 | 90.40 | G1/2 |
| ACP08EA200E2KRC | 80 | 2.00 | 275 | 10.25 | 564.5 | 25.3 | 90.40 | G3/4 |
| ACP08EA300E2KRB | 80 | 3.00 | 275 | 13.45 | 783.9 | 25.3 | 90.40 | G1/2 |
| ACP08EA300E2KRC | 80 | 3.00 | 275 | 13.45 | 783.9 | 25.3 | 90.40 | G3/4 |
| ACP08EA300E2KRD | 80 | 3.00 | 275 | 13.45 | 783.9 | 25.3 | 90.40 | G1 |
| ACP08EA400E2KRC | 80 | 4.00 | 275 | 16.65 | 1003.5 | 25.3 | 90.40 | G3/4 |
| ACP08EA400E2KRD | 80 | 4.00 | 275 | 16.65 | 1003.5 | 25.3 | 90.40 | G1 |
| ACP08EA500E2KRC | 80 | 5.00 | 275 | 19.85 | 1222.9 | 25.3 | 90.40 | G3/4 |

| Part number | øBo-re | Effective Gas Volume (L) max. | Max. Working Pressure (bar) | Weight (Kg) | A | B | ø C | Ø D (BSPP) Female |
|------------------|--------|-------------------------------|-----------------------------|-------------|--------|------|--------|-------------------|
| ACP08EA600E2KRC | 80 | 6.00 | 275 | 23.20 | 1442.5 | 25.3 | 90.40 | G3/4 |
| ACP10EA200E2KRC | 100 | 2.00 | 275 | 14.72 | 391.4 | 25.3 | 120.80 | G3/4 |
| ACP10EA200E2KRD | 100 | 2.00 | 275 | 14.72 | 391.4 | 25.3 | 120.80 | G1 |
| ACP10EA300E2KRC | 100 | 3.00 | 275 | 17.80 | 512.9 | 25.3 | 120.80 | G3/4 |
| ACP10EA300E2KRD | 100 | 3.00 | 275 | 17.80 | 512.9 | 25.3 | 120.80 | G1 |
| ACP10EA400E2KRC | 100 | 4.00 | 275 | 20.88 | 634.5 | 25.3 | 120.80 | G3/4 |
| ACP10EA400E2KRD | 100 | 4.00 | 275 | 20.88 | 634.5 | 25.3 | 120.80 | G1 |
| ACP10EA500E2KRD | 100 | 5.00 | 275 | 24.00 | 755.6 | 25.3 | 120.80 | G1 |
| ACP10EA600E2KRD | 100 | 6.00 | 275 | 27.04 | 877.7 | 25.3 | 120.80 | G1 |
| ACP10EA800E2KRD | 100 | 8.00 | 275 | 33.20 | 1120.7 | 25.3 | 120.80 | G1 |
| ACP10EA1000E2KRD | 100 | 10.00 | 275 | 39.36 | 1363.9 | 25.3 | 120.80 | G1 |
| ACP10EA1200E2KRD | 100 | 12.00 | 275 | 45.52 | 1607.0 | 25.3 | 120.80 | G1 |
| ACP15EA300E2KRD | 150 | 3.00 | 275 | 33.36 | 370.7 | 28.6 | 174.63 | G1 |
| ACP15EA400E2KRD | 150 | 4.00 | 275 | 37.21 | 429.7 | 28.6 | 174.63 | G1 |
| ACP15EA600E2KRD | 150 | 6.00 | 275 | 43.70 | 547.8 | 28.6 | 174.63 | G1 |
| ACP15EA800E2KRD | 150 | 8.00 | 275 | 50.20 | 665.8 | 28.6 | 174.63 | G1 |
| ACP15EA1000E2KRD | 150 | 10.00 | 275 | 56.70 | 783.9 | 28.6 | 174.63 | G1 |
| ACP15EA1200E2KRD | 150 | 12.00 | 275 | 63.19 | 902.0 | 28.6 | 174.63 | G1 |
| ACP15EA2000E2KRD | 150 | 20.00 | 275 | 89.18 | 1374.2 | 28.6 | 174.63 | G1 |



Crimped Piston Accumulators up to 350 bar, Ø 50 - 150 mm

HCP - Crimped Piston Accumulators 350 bar with Schrader style gas valve (code A).
 Standard version (carbon steel shell / seal NBR) compatible with mineral oils.

| Part number | Ø Bore | Effective Gas Volume (L) max. | Max. Working Pressure (bar) | Weight (Kg) | A | B | Ø C | Ø D (BSPF) Female |
|-----------------|--------|-------------------------------|-----------------------------|-------------|--------|------|--------|-------------------|
| HCP05EA016H2KRC | 50 | 0.16 | 350 | 1.80 | 177.2 | 25.4 | 60.33 | G3/4 |
| HCP05EA032H2KRC | 50 | 0.32 | 350 | 2.20 | 254.2 | 25.4 | 60.33 | G3/4 |
| HCP05EA050H2KRC | 50 | 0.50 | 350 | 2.80 | 340.8 | 25.4 | 60.33 | G3/4 |
| HCP05EA075H2KRB | 50 | 0.75 | 350 | 3.50 | 461.2 | 25.4 | 60.33 | G1/2 |
| HCP05EA075H2KRC | 50 | 0.75 | 350 | 3.50 | 461.2 | 25.4 | 60.33 | G3/4 |
| HCP05EA100H2KRC | 50 | 1.00 | 350 | 4.10 | 557.7 | 25.4 | 60.33 | G3/4 |
| HCP08EA050H2KRC | 80 | 0.50 | 350 | 5.46 | 235.4 | 25.3 | 90.40 | G3/4 |
| HCP08EA075H2KRB | 80 | 0.75 | 350 | 6.26 | 290.3 | 25.3 | 90.40 | G1/2 |
| HCP08EA075H2KRC | 80 | 0.75 | 350 | 6.26 | 290.3 | 25.3 | 90.40 | G3/4 |
| HCP08EA100H2KRB | 80 | 0.95 | 350 | 6.90 | 334.0 | 25.3 | 90.40 | G1/2 |
| HCP08EA100H2KRC | 80 | 0.95 | 350 | 6.90 | 334.0 | 25.3 | 90.40 | G3/4 |
| HCP08EA150H2KRB | 80 | 1.50 | 350 | 8.65 | 454.7 | 25.3 | 90.40 | G1/2 |
| HCP08EA150H2KRC | 80 | 1.50 | 350 | 8.65 | 454.7 | 25.3 | 90.40 | G3/4 |
| HCP08EA200H2KRC | 80 | 2.00 | 350 | 10.25 | 564.5 | 25.3 | 90.40 | G3/4 |
| HCP08EA200H2KRD | 80 | 2.00 | 350 | 10.25 | 564.5 | 25.3 | 90.40 | G1 |
| HCP08EA300H2KRC | 80 | 3.00 | 350 | 13.45 | 783.9 | 25.3 | 90.40 | G3/4 |
| HCP08EA300H2KRD | 80 | 3.00 | 350 | 13.45 | 783.9 | 25.3 | 90.40 | G1 |
| HCP08EA400H2KRC | 80 | 4.00 | 350 | 16.65 | 1003.5 | 25.3 | 90.40 | G3/4 |
| HCP08EA400H2KRD | 80 | 4.00 | 350 | 16.65 | 1003.5 | 25.3 | 90.40 | G1 |
| HCP08EA500H2KRC | 80 | 5.00 | 350 | 19.85 | 1222.9 | 25.3 | 90.40 | G3/4 |
| HCP08EA500H2KRD | 80 | 5.00 | 350 | 19.85 | 1222.9 | 25.3 | 90.40 | G1 |
| HCP08EA800H2KRD | 80 | 8.00 | 350 | 29.44 | 1881.2 | 25.3 | 90.40 | G1 |
| HCP10EA075H2KRB | 100 | 0.75 | 350 | 10.87 | 239.5 | 25.3 | 120.80 | G1/2 |
| HCP10EA075H2KRD | 100 | 0.75 | 350 | 10.87 | 239.5 | 25.3 | 120.80 | G1 |
| HCP10EA100H2KRB | 100 | 0.95 | 350 | 11.49 | 263.8 | 25.3 | 120.80 | G1/2 |
| HCP10EA100H2KRD | 100 | 0.95 | 350 | 11.49 | 263.8 | 25.3 | 120.80 | G1 |
| HCP10EA150H2KRB | 100 | 1.50 | 350 | 13.18 | 330.6 | 25.3 | 120.80 | G1/2 |
| HCP10EA150H2KRD | 100 | 1.50 | 350 | 13.18 | 330.6 | 25.3 | 120.80 | G1 |
| HCP10EA200H2KRC | 100 | 2.00 | 350 | 14.80 | 391.4 | 25.3 | 120.80 | G3/4 |
| HCP10EA200H2KRD | 100 | 2.00 | 350 | 14.80 | 391.4 | 25.3 | 120.80 | G1 |
| HCP10EA300H2KRC | 100 | 3.00 | 350 | 17.80 | 512.9 | 25.3 | 120.80 | G3/4 |
| HCP10EA300H2KRD | 100 | 3.00 | 350 | 17.80 | 512.9 | 25.3 | 120.80 | G1 |
| HCP10EA400H2KRC | 100 | 4.00 | 350 | 20.88 | 634.5 | 25.3 | 120.80 | G3/4 |
| HCP10EA400H2KRD | 100 | 4.00 | 350 | 20.88 | 634.5 | 25.3 | 120.80 | G1 |
| HCP10EA500H2KRD | 100 | 5.00 | 350 | 23.95 | 755.6 | 25.3 | 120.80 | G1 |
| HCP10EA600H2KRD | 100 | 6.00 | 350 | 27.04 | 877.7 | 25.3 | 120.80 | G1 |



| Part number | ø Bore | Effective Gas Volume (L) max. | Max. Working Pressure (bar) | Weight (Kg) | A | B | ø C | Ø D (BSPP) Female |
|------------------|--------|-------------------------------|-----------------------------|-------------|--------|------|--------|-------------------|
| HCP10EA800H2KRD | 100 | 8.00 | 350 | 33.20 | 1120.7 | 25.3 | 120.80 | G1 |
| HCP10EA1000H2KRD | 100 | 10.00 | 350 | 39.36 | 1363.9 | 25.3 | 120.80 | G1 |
| HCP15EA300H2KRD | 150 | 3.00 | 350 | 34.00 | 370.7 | 28.6 | 174.63 | G1 |
| HCP15EA400H2KRD | 150 | 4.00 | 350 | 37.21 | 429.7 | 28.6 | 174.63 | G1 |
| HCP15EA500H2KRD | 150 | 5.00 | 350 | 40.45 | 488.7 | 28.6 | 174.63 | G1 |
| HCP15EA600H2KRD | 150 | 6.00 | 350 | 43.70 | 547.8 | 28.6 | 174.63 | G1 |
| HCP15EA800H2KRD | 150 | 8.00 | 350 | 50.20 | 665.8 | 28.6 | 174.63 | G1 |
| HCP15EA1000H2KRD | 150 | 10.00 | 350 | 56.70 | 783.9 | 28.6 | 174.63 | G1 |
| HCP15EA1200H2KRD | 150 | 12.00 | 350 | 63.19 | 902.0 | 28.6 | 174.63 | G1 |
| HCP15EA1400H2KRD | 150 | 14.00 | 350 | 69.69 | 1020.0 | 28.6 | 174.63 | G1 |
| HCP15EA2000H2KRD | 150 | 20.00 | 350 | 89.18 | 1374.2 | 28.6 | 174.63 | G1 |

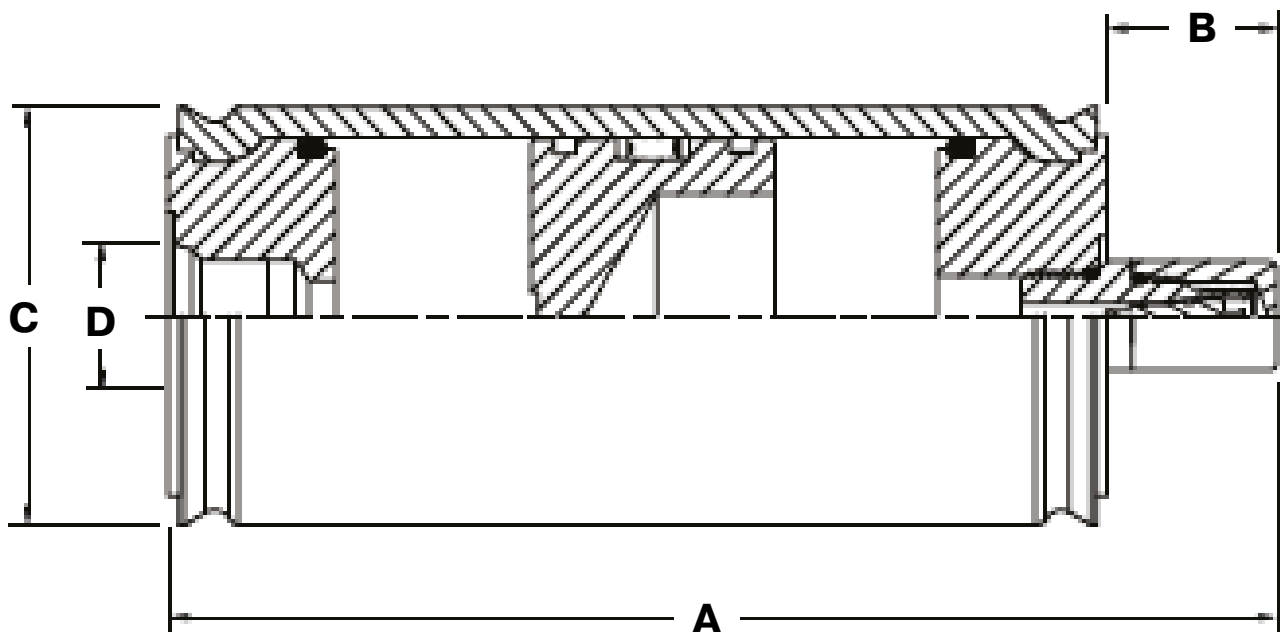


Table A - Gas Volume

ACP 04
Bore Size: 40 mm

| Code | Volume (L) |
|------|------------|
| 002 | 0.02 |
| 008 | 0.08 |
| 016 | 0.16 |
| 032 | 0.32 |

ACP 05 / HCP 05
Bore Size: 50 mm

| Code | Volume (L) |
|------|------------|
| 008 | 0.08 |
| 016 | 0.16 |
| 032 | 0.32 |
| 050 | 0.50 |
| 075 | 0.75 |
| 100 | 0.95 |
| 125 | 1.25 |
| 150 | 1.50 |
| 175 | 1.75 |
| 200 | 2.00 |

ACP 08 / HCP 08
Bore Size: 80 mm

| Code | Volume (L) |
|------|------------|
| 032 | 0.32 |
| 050 | 0.50 |
| 100 | 0.95 |
| 150 | 1.50 |
| 200 | 2.00 |
| 250 | 2.50 |
| 300 | 3.00 |
| 400 | 4.00 |
| 500 | 5.00 |
| 600 | 6.00 |
| 700 | 7.00 |
| 800 | 8.00 |

ACP 10 / HCP 10
Bore Size: 100 mm

| Code | Volume (L) |
|------|------------|
| 075 | 0.75 |
| 100 | 0.95 |
| 150 | 1.50 |
| 200 | 2.00 |
| 300 | 3.00 |
| 400 | 4.00 |
| 500 | 5.00 |
| 1000 | 10.00 |
| 1100 | 11.00 |
| 1200 | 12.00 |

ACP 15 / HCP 15
Bore Size: 150 mm

| Code | Volume (L) |
|------|------------|
| 300 | 3.00 |
| 400 | 4.00 |
| 500 | 5.00 |
| 600 | 6.00 |
| 800 | 8.00 |
| 1000 | 10.00 |
| 1200 | 12.00 |
| 1400 | 14.00 |
| 2000 | 20.00 |

For other volumes please contact Parker.

Table B - Fluid Ports

| Port Type | Code | ACP04 | ACP05/HCP05 | ACP08/HCP08 | ACP10/HCP10 | ACP15/HCP15 |
|--------------------|------|-------|-------------|-------------|-------------|-------------|
| SAE6 Female | TB | x | x | x | x | x |
| SAE8 Female | TC | | x | x | x | x |
| SAE10 Female | TI | | x | x | x | x |
| SAE12 Female | TD | | | x | x | x |
| SAE16 Female | TE | | | x | x | x |
| SAE12 Male* | AD | x | x | x | x | x |
| SAE16 Male* | AE | | x | x | x | x |
| BSPP (G) ¼ Female | RH | x | x | x | x | x |
| BSPP (G) ⅜ Female | RA | | x | x | x | x |
| BSPP (G) ½ Female | RB | x | x | x | x | x |
| BSPP (G) ¾ Female | RC | | x | x | x | x |
| BSPP (G) 1 Female | RD | | | x | x | x |
| BSPP (G) 1½ Female | RE | | | | | x |
| BSPP (G) ¾ Male* | LC | | | x | x | x |
| BSPP (G) 1 Male* | LD | | | x | x | x |
| BSPP (G) 1½ Male* | LE | | | | | x |
| M14 x 1.5 Female | GA | x | x | x | x | x |
| M18 x 1.5 Female | GB | x | x | x | x | x |
| M22 x 1.5 Female | GC | | x | x | x | x |
| M18 x 1.5 Male* | HB | x | x | x | x | x |
| M22 x 1.5 Male* | HC | x | x | x | x | x |

* on request. Please contact Parker.



How to order Crimped Piston Accumulators 260 bar - 350 bar

| | | | | | | | | | | |
|-----------|----------|-----------|----------|----------|------------|----------|----------|----------|-----------|-------------|
| AC | P | 04 | E | A | 008 | R | 2 | K | RA | /010 |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |

| | | |
|----|---|--|
| 01 | Series | AC (260 bar, 275 bar) HC (350 bar) |
| 02 | Type | P = Piston, G = Gas Bottle |
| 03 | Bore Size | 04 = 40 mm (ACP only), 05 = 50 mm, 08 = 80 mm, 10 = 100 mm, 15 = 150 mm |
| 04 | Approval Type | E = PED 2014/68/EU, A = No Approval |
| 05 | Valve Options | A = Gas Valve, standard D = Steel Plug, sealed unit H = Gas Valve, M28 x 1.5 M = Gas Valve, MS 28889-2 (Military) (if no gas valve is required, please leave blank) |
| 06 | Gas Volume (L) | please see table A |
| 07 | Max. Working Pressure | R = 260 bar (40 mm bore only), metallic parts -20/150°C S = 260 bar (40 mm bore only), metallic parts -40/150°C E = 275 bar (50, 80, 100, 150 bore), metallic parts -20/150°C F = 275 bar (50, 80, 100, 150 bore), metallic parts -40/150°C H = 350 bar (50, 80, 100, 150 bore), metallic parts -20/150°C I = 350 bar (50, 80, 100, 150 bore), metallic parts -40/150°C |
| 08 | Port | 1 = SAE Port 2 = BSPP (G) Port 3 = Special 4 = Metric Port |
| 09 | Sealing System (see p. 11 for temperature range) | K = Nitrile Standard H = Hydrogenated nitrile extended temperature range Q = Nitrile low temperature X = Low friction T-Seal Special on request |
| 10 | Fluid Port | please see table B |
| 11 | Pre-Charge (example) | 010 = 10 bar 020 = 20 bar |

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